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(54) Encapsulated liquid crystal and method.

(57) Briefly, according to one aspect of the invention, liquid crystal material, and especially nematic material, is encapsulated; according to another aspect the encapsulated liquid crystal material is used in liquid crystal devices, such as relatively large size visual display devices; and according to further aspects there are provided methods for encapsulating liquid crystal material and for making a liquid crystal device using such encapsulated liquid crystal material.

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DOCUMENTS CONSIDERED TO BE RELEVANT			
Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (Int. Cl. 4)
X	FR-A-2 293 722 (LE SECRETAIRE D'ETAT) * Page 1, lines 3-17; page 2, lines 2-8; page 3, lines 1-8,29-35; page 4, lines 1-13 *	1-4,7,9 ,14-19, 23	G 02 F 1/133 G 02 F 1/137
A	---	21,24	
A	FR-A-2 123 338 (SIEMENS) * Page 2, line 35 - page 4, line 13 *	1,3,4, 18,22	
A	FR-A-2 139 537 (MARCONI) * Page 2, line 23 - page 3, line 10; page 4, lines 27,28; page 5, line 39 - page 6, line 7 *	1,3-5, 18	
			TECHNICAL FIELDS SEARCHED (Int. Cl.4)
			G 02 F
The present search report has been drawn up for all claims			
Place of search THE HAGUE		Date of completion of the search 08-11-1988	Examiner CONRAD V. HEYDENDORFF K.
CATEGORY OF CITED DOCUMENTS			
X : particularly relevant if taken alone Y : particularly relevant if combined with another document of the same category A : technological background O : non-written disclosure P : intermediate document		I : theory or principle underlying the invention E : earlier patent document, but published on, or after the filing date D : document cited in the application L : document cited for other reasons & : member of the same patent family, corresponding document	